PATENT ABSTRACTS OF JAPAN

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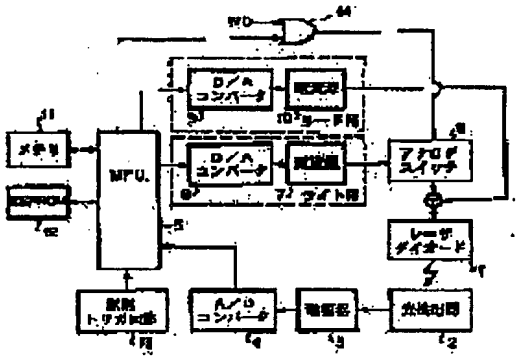
(54) LASER DIODE DRIVING CURRENT SEARCH METHOD AND OPTICAL INFORMATION RECORDER

(57)Abstract:

PROBLEM TO BE SOLVED: To prevent a laser diode from becoming a rated beam output or above and to search a laser diode drive current in the vicinity of the rated beam output value by calculating differential efficiency of a driving current to a beam output from the beam output in a point lower than the present driving current.

SOLUTION: An initial value of an output voltage I of a D/A converter 6 is set lower than the rated output of the laser diode 1 by considering an estimated maximum temp. change much, and the value of an A/D converter 4 corresponding to the target beam output is set in a memory 11 as a name of Pt. The output voltage I is outputted to the D/A converter 6, and the beam output value then is read by the A/D converter 4 to made it P1. The beam output value when the voltage subtracting an effioiency measuring differential amount α from the output voltage I is outputted to the converter 6 is made P2, and the differential efficiency η is calculated from the P1 and P2, and I is updated by I=1+(Pt−P1)÷η. Until the measured value P1 becomes within the error range of the target value Pt, the above processing is repeated, and the output voltage I is obtained.



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